



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
Post Office Box 7
Catawba, SC 29704-0007

FED EX NO. 7767 4368 9154

July 14, 2016

Technical Management Section
South Carolina Department of Health and Environmental Control
Bureau of Air Quality
2600 Bull Street
Columbia, SC 29201-1708

Re: 2016 Second Quarter CEM Report Summaries
Air Permit Number TV-2440-0005

Dear Sir or Madam:

Enclosed are the 2016 Second Quarter Continuous Emission Monitor Report Summaries and Title V monitoring report for Resolute Forest Products – Catawba Mill, Air Permit Number TV-2440-0005. Logs detailing each specific incident are also enclosed.

Based on information and belief formed after reasonable inquiry, I certify to the best of my knowledge, that the statements and information in this submission are true, accurate, and complete.

If there are any questions, please feel free to contact Mike Swanson at (803) 981-8010.

Sincerely,

Wayne Griffin
General Manager

Enclosures

cc: Alex Latta, Region 3 Lancaster EQC Office
EPA Region 4
Environmental File 208.18

2016 Second Quarter CEM Report Summaries

Title V Permit Unit ID 01 – Woodyard

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
01.1	1300	N/A	N/A	Refers to FW.4
01.2	1300	N/A	N/A	Refers to FW.4
01.3	1300	No	N/A	Refers to FW.4
01.4	1300	N/A	N/A	Refers to FW.1

Title V Permit ID 02 – Kraft Process – Kraft Pulp Mill

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
02.1	5210, 5220, 5230, 5240, and 5250	No	N/A	N/A
02.2(A)	5210 & 5230	Yes	Semi-annual	See below.
02.2(B)	5210 & 5230	N/A	N/A	Refers to 08.7.
02.3	5210, 5220, 5230, 5240, and 5250	N/A	N/A	Refers to MACT conditions.
02.4	5210, 5220, 5230, 5240, and 5250	N/A	N/A	Refers to FW.1.

Condition 02.2(A)
Equip IDs 5210 and 5230

Reporting Frequency: Semi-Annually

There were no parameters outside the ranges listed in Attachment H for the scrubber (Control Device ID 5260C) during the semi-annual period.

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Title V Permit ID 03 – Kraft Process: Kraft Bleach Plant

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
03.1	5300	Yes	Semi-annual	See note below.
03.2	5300	N/A	N/A	Refers to MACT conditions.
03.3	5300	N/A	N/A	Refers to FW.1

Condition 03.1 Equip ID 5300

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.03.1.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is continuous monitoring of specific scrubber parameters.
- Cause(s) and corrective action(s) are detailed on the enclosed logs.

There was one incident during which a parameter was outside the maximum rate during the reporting period. See the enclosed log for details.

Title V Permit ID 04 – Kraft Process: Chlorine Dioxide Generator

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
04.1	1790	Yes	Semi-annual	See note below.
04.2	1790	No	N/A	N/A

Condition 04.1 Equip ID 1790

Reporting Frequency: Semi-Annually

There was one incident in which a surrogate monitoring parameter was outside the range for the chlorine dioxide scrubber (Control Device ID 1790C) during the semi-annual reporting period. . See the enclosed log for details.

Title V Permit ID 05 – TMP Process

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
05.1	4400	No	N/A	N/A
05.2	4400	No	N/A	N/A

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Title V Permit ID 06 – Paper Mill

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
06.1(A)	2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704	N/A	N/A	Refers to FW.4.
06.1(B)	2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704	Yes	Semi-annual	See note below.
06.2(A)	2010, 4610, 4120, 4130, & 9900	No	N/A	N/A
06.2(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.3(A)	2010	No	N/A	N/A
06.3(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.3(C)	4610	Yes	Semi-annual	See note below.
06.3(D)	9900	Yes	Semi-annual	See note below.
06.4	4110	Yes	Semi-annual	See note below.
06.5(A)	2010	No	N/A	N/A
06.5(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.5(C)	4610	Yes	Semi-annual	See note below.
06.5(D)	9900	Yes	Semi-annual	See note below.
06.6(A)	4610	Yes	Semi-annual	See note below.
06.6(B)	9900	Yes	Semi-annual	See note below.
06.7	4110	No	N/A	N/A
06.8	2010	No	N/A	N/A
06.9	2000, 2010, 2100, 4600, 4610, 4100, 4110, 4120, & 4130	N/A	N/A	Refers to FW.1
06.10	2005, 2010, 4605, & 4610	N/A	N/A	Refers to MACT conditions

Condition 06.1(B)

Equip IDs 2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704

Reporting Frequency: Semi-Annually

During the reporting period, no abnormal dust emissions were noted on daily inspection reports during the semi-annual period.

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Condition 06.2(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

Kerosene was not utilized in the Hot Oil Heating System (4130); therefore, no visual inspections were performed during the reporting period. The Infrared Dryer (4120) was removed from service at the end of May 2013.

Condition 06.3(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

The Infrared Dryer (4120) was removed from service at the end of May 2013. Monthly fuel usages of natural gas, kerosene, and propane for the Hot Oil Heating System (4130):

No. 3 Paper Machine Hot Oil Heater Fuel Usage (ID 4130)

Month	Natural Gas (MMBtu)	Propane (gallons)	Kerosene (gallons)
December-14	4,551	0	0
January-15	5,292	0	0
February-15	4,561	0	0
March-15	3,905	0	0
April-15	5,017	0	0
May-15	5,115	0	0
June-15	4,618	0	0
July-15	4,714	0	0
August-15	4,429	0	0
September-15	4,618	0	0
October-15	4,838	0	0
November-15	4,208	0	0
December-15	5,336	0	0
January-16	5,037	0	0
February-16	4,421	0	0
March-16	4,535	0	0
April-16	4,455	0	0
May-16	3,705	0	0
June-16	2,752	0	0

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Condition 06.3(C)
Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of kerosene and propane for the No. 2 Coater Dryer (4610) are shown below:

	Kerosene (gallons)	12-Month Sum	Propane (gallons)	12-Month Sum
December-14	0	116,056	0	0
January-15	0	30,597	0	0
February-15	18,669	25,364	0	0
March-15	0	25,364	0	0
April-15	0	25,364	0	0
May-15	0	25,364	0	0
June-15	0	25,364	0	0
July-15	0	25,364	0	0
August-15	0	25,364	0	0
September-15	0	25,364	0	0
October-15	0	25,364	0	0
November-15	0	18,669	0	0
December-15	0	18,669	0	0
January-16	0	18,669	0	0
February-16	0	0	0	0
March-16	0	0	0	0
April-16	0	0	0	0
May-16	0	0	0	0
June-16	0	0	0	0

Condition 06.3(D)
Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make-Up Air Units (4610) are shown below:

	Natural Gas (scf)	12-Month Rolling Sum	Propane (gallons)	12-Month Rolling Sum
December-14	3,572,854	29,222,342	0	0
January-15	10,665,054	29,305,978	0	0
February-15	11,559,807	36,001,116	0	0
March-15	3,299,664	35,051,658	0	0
April-15	342,261	34,274,852	0	0
May-15	0	34,274,852	0	0
June-15	5	34,274,857	0	0
July-15	8	34,274,814	0	0
August-15	252	34,275,067	0	0
September-15	137	34,275,204	0	0
October-15	3,009,664	35,889,096	0	0
November-15	5,036,252	37,485,959	0	0
December-15	5,008,259	38,921,364	0	0
January-16	10,241,660	38,497,969	0	0
February-16	8,327,449	35,265,612	0	0
March-16	3,566,100	35,532,047	0	0
April-16	1,619,512	36,809,298	0	0
May-16	57	36,809,355	0	0
June-16	222	36,809,572	0	0

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Condition 06.4 Equip ID 4110

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the Air Flootation Dryer (4110) are shown below:

Month	Natural Gas MMBtu	Propane (gallons)	Kerosene (gallons)	PM / MMBtu
December-14	8,022	0	0	0.0076
January-15	9,326	0	0	0.0076
February-15	8,038	0	0	0.0076
March-15	6,883	0	0	0.0076
April-15	8,843	0	0	0.0076
May-15	9,015	0	0	0.0076
June-15	8,140	0	0	0.0076
July-15	8,309	0	0	0.0076
August-15	7,805	0	0	0.0076
September-15	8,138	0	0	0.0076
October-15	8,527	0	0	0.0076
November-15	7,416	0	0	0.0076
December-15	9,403	0	0	0.0076
January-16	8,878	0	0	0.0076
February-16	7,792	0	0	0.0076
March-16	7,992	0	0	0.0076
April-16	7,851	0	0	0.0076
May-16	6,530	0	0	0.0076
June-16	4,851	0	0	0.0076

The Air Flootation Dryer demonstrated compliance with the BACT limit of 0.0164 lb PM per million BTU.

Condition 06.5(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the Hot Oil Heating System (4130) are shown for condition 5C.06.3(B) above. The Infrared Dryer (4120) was removed from service at the end of May 2013.

Condition 06.5(C) Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the No. 2 Coater Dryer (4610) are shown for condition 5C.06.3(C) above.

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Condition 06.5(D) Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make Up Air Units (4610) are shown for condition 5C.06.3(D) above.

Condition 06.6(A) Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the No. 2 Coater Dryer (4610) are shown for condition 5C.06.3(C) above.

Condition 06.6(B) Equip ID 9900

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas and propane for the Paper Machine Make Up Air Units (4610) are shown for condition 5C.06.3(D) above.

Title V Permit ID 07 – Chemical Recovery

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
07.1(A)	2400, 2402, 2500, 5100	No	N/A	N/A
07.1(B)	2515, 2520, 5115, 5120, 2700, 2701, 2702, & 2703	N/A	N/A	Refers to FW.4
07.1(C)	2700 & 2701 (2725C)	No	N/A	N/A
07.2(A)	2505 & 2723	Yes	Semi-annual	See note below.
07.2(B)	2510 & 5110 (2511C)	Yes	Semi-annual	See note below.
07.3	5105	Yes	Semi-annual	See note below.
07.4(A)	2505	N/A	N/A	Refers to MACT conditions
07.4(B1)	2505	N/A	N/A	Refers to MACT conditions
07.4(B2)	2505	No	N/A	N/A
07.5(A)	2510	N/A	N/A	Refers to MACT conditions
07.5(B1)	2510	N/A	N/A	Refers to MACT conditions
07.5(B2)	2510	No	N/A	N/A
07.6(A)	5105	N/A	N/A	Refers to MACT conditions
07.6(B1)	5105	N/A	N/A	Refers to MACT conditions
07.6(B2)	5105	No	N/A	N/A
07.6(C)	5105	N/A	N/A	Refers to FW.3.
07.7(A)	5110	N/A	N/A	Refers to MACT conditions.
07.7(B)	5110	N/A	N/A	Refers to MACT conditions.
07.8(A)	2723	N/A	N/A	Refers to MACT conditions.
07.8(B)	2723	N/A	N/A	Refers to MACT

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Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
				conditions.
07.8(C1)	2723	N/A	N/A	Refers to MACT conditions.
07.9(A)	2725C	No	N/A	N/A
07.9(B)	2726C & 2724C	No	N/A	N/A
07.9(C)	2724C, 2725C & 2726C	Yes	Semi-annual	See note below.
07.10(A)	5105 & 2723	No	N/A	N/A
07.10(B)	2723	No	N/A	N/A
07.10(C)	5105	No	N/A	N/A
07.10(D1)	2723	N/A	N/A	Refers to FW.2.
07.10(D2)	2723	N/A	N/A	Refers to FW.3.
07.10(D3)	5105	N/A	N/A	Refers to FW.3.
07.11(A)	5105 & 2723	No	N/A	N/A
07.11(B1)	2723	No	N/A	N/A
07.11(B2)	5105	No	N/A	N/A
07.11(C1)	2723	N/A	N/A	Refers to FW.2.
07.11(C2)	2723	N/A	N/A	Refers to FW.3.
07.11(C3)	5105	N/A	N/A	Refers to FW.3.
07.12(A)	5105 & 2723	No	N/A	N/A
07.12(B)	5105 & 2723	Yes	Semi-annual	See note below.
07.12(C1)	2723	N/A	N/A	Refers to FW.2.
07.12(C2)	2723	N/A	N/A	Refers to FW.3.
07.12(C3)	5105	N/A	N/A	Refers to FW.3.
07.13(A)	5260 (5260C)	N/A	N/A	Refers to 02.2.
07.13(B)	2400, 2500, 5100, & 5260	N/A	N/A	Refers to 08.7.
07.14	2505	Yes	Semi-annual	See note below.
07.15	5105	Yes	Semi-annual	See note below.
07.16(A)	2510	Yes	Semi-annual	See note below.
07.16(B)	5110	Yes	Semi-annual	See note below.
07.17(A)	2723	Yes	Semi-annual	See note below.
07.17(B1)	2723	N/A	N/A	Refers to FW.2.
07.17(B2)	2723	N/A	N/A	Refers to FW.3.
07.18(A1)	2723	N/A	N/A	See note below.
07.18(A2)	2723	N/A	N/A	Refers to FW.3.
07.19	2400, 2700, 2701, 2702, 2723, 5105, 5110, & 5115	N/A	N/A	Refers to FW.1.
07.20 & 0.7.21	2400, 2500, & 5100	N/A	N/A	Refer to MACT conditions.
07.22	2505, 2110, 2723, 5105, & 5110	N/A	N/A	Refer to MACT conditions.

Condition 07.2(A) Equip IDs 2505 & 2723

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5C.07.2.

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- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

There were no three-hour opacity episodes for the No. 2 Lime Kiln (ID 2723) during the semi-annual reporting period.

There were no three-hour opacity episodes for the No. 2 Recovery Furnace (ID 2505) during the semi-annual reporting period.

A summary is listed below for the continuous opacity monitoring downtime and excess emissions for the reporting period.

Continuous Opacity Monitoring – No. 2 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	1.65 %	0.90 %	1.27 %
Excess Emission	0.03 %	0.10 %	0.07 %
Overall Compliance	98.32 %	99.00 %	98.66 %

Continuous Opacity Monitoring – No. 2 Lime Kiln

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	0.14 %	0.09 %	0.11 %
Excess Emission	0.02 %	0.04 %	0.03 %
Overall Compliance	99.84 %	99.87 %	99.85 %

Condition 07.2(B) Control Device ID 2511C

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5C.07.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there was only one instance of deviation from the scrubber monitoring ranges. See the enclosed log for details.

Condition 07.3 Equip ID 5105

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.3.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

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There were no three-hour opacity episodes during the semi-annual reporting period.

A summary is listed below for the continuous opacity monitoring downtime and excess emissions for the reporting period.

Continuous Opacity Monitoring – No. 3 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	0.31 %	0.11 %	0.21 %
Excess Emission	0.08 %	0.07 %	0.07 %
Overall Compliance	99.61 %	99.82 %	99.72 %

Condition 07.9(C)

Control Device IDs 2724C, 2725C, & 2726C

Reporting Frequency: Semi-Annually

For the Slaker Scrubber (ID 2725C), there were no variations of a surrogate monitoring parameters during the semi-annual period.

No abnormal dust emissions were noted on the daily logs for the lime silos baghouses (IDs 2724C and 2726C) during the semi-annual reporting period.

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Condition 07.12(B) Equip IDs 2723 & 5105

Reporting Frequency: Semi-Annually

The lime kiln modifications authorized by Construction Permit 2440-0005-DA have not occurred; therefore the requirements of this condition applicable to the No. 2 Lime Kiln (ID 2723) are not yet applicable.

The required data is recorded for the No. 3 Recovery Furnace (ID 5105). A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period. See the enclosed log for details.

Continuous NOx Emissions Monitoring – No. 3 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	0.65 %	1.71 %	1.20 %
Excess Emission	0.00 %	0.00 %	0.00 %
Overall Compliance	99.35 %	98.29 %	98.80 %

Condition 07.14 Equip ID 2505

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.14.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period. See the enclosed log for details.

Continuous Emissions Monitoring – No. 2 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	1.32 %	1.29 %	1.31 %
Excess Emission	0.00 %	0.00 %	0.00 %
Overall Compliance	98.68 %	98.71 %	98.69 %

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Condition 07.15 Equip ID 5105

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.15.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period. See the enclosed log for details.

Continuous Emissions Monitoring – No. 3 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	0.33 %	0.71 %	0.53 %
Excess Emission	0.00 %	0.00 %	0.00 %
Overall Compliance	99.67%	99.29 %	99.47 %

Condition 07.16(A) Equip ID 2510

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.16.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation within surrogate monitoring parameters
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there was one instance of scrubber monitoring range deviation.

Condition 07.16(B) Equip ID 5110

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.16.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation within surrogate monitoring parameters.
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there was one instance of scrubber monitoring range deviation.

Condition 07.17(A) Equip ID 2723

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

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- The specific permit condition for which exceptions are being noted is 5.C.07.17.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period.

Continuous Emissions Monitoring – No. 2 Lime Kiln

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	0.95 %	3.32 %	2.18 %
Excess Emission	0.00 %	0.00 %	0.00 %
Overall Compliance	99.05 %	96.68 %	97.82 %

Condition 07.18(A1) Equip ID 2723

The lime kiln modifications authorized by Construction Permit 2440-0005-DA have not occurred; therefore the requirements of this condition applicable to the No. 2 Lime Kiln (ID 2723) are not yet applicable. If/when the modifications occur, Facility-Wide condition FW.2 will apply.

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Title V Permit ID 08 – Utilities

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
08.1(A)	2550	N/A	N/A	Refers to FW.4.
08.1(B)	2605 & 3705	Yes	Quarterly	See note below.
08.2(A)	2550	N/A	N/A	Refers to FW.4.
08.2(B1)	2605 & 3705	Yes	Semi-annual	See note below.
08.2(B2)	2605 & 3705	No	N/A	N/A
08.2(C)	2605 & 3705	No	N/A	N/A
08.3(A)	2550	No	N/A	N/A
08.3(B)	2605 & 3705	No	N/A	N/A
08.4	2550	Yes	Quarterly	Submitted under separate cover.
08.5	2605 & 3705	Yes	Annual	Submitted under separate cover.
08.6	2605 & 3705	Yes	Semi-annual	See note below.
08.7	2605, 3705, 5260, 5270, & 9820	Yes	Semi-annual	See note below.
08.8	2605, 3705, 5260, 5270, & 9820	N/A	N/A	Refers to MACT conditions.

Condition 08.1(B) Equip IDs 2605 & 3705

Reporting Frequency: Quarterly

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.1.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous opacity monitoring monitor downtime and excess emissions for the quarter. The precipitator bypass minutes are also listed below.

2016 Second Quarter CEM Report Summaries

Continuous Opacity Monitoring

	No. 1 Combination Boiler (ID 2605)	No. 2 Combination Boiler (ID 3705)
Monitor Downtime	2.90 %	0.37 %
Excess Emissions	0.00 %	0.02 %
Overall Compliance	97.10 %	99.62 %
Precipitator Bypass	3727 minutes	390 minutes

There were no periods of 3-hour opacity episodes during the quarter for either boiler.

There were no trips of the precipitator for No. 1 Combination Boiler, and two brief trips of the precipitator for No. 2 Combination Boiler within the quarter. Specific details are on the enclosed logs for each boiler.

Condition 08.2(B1) Equip IDs 2605 & 3705

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous opacity monitoring monitor downtime and excess emissions for the semi-annual reporting period. The precipitator bypass minutes are also listed below.

Continuous Opacity Monitoring

	No. 1 Combination Boiler (ID 2605)	No. 2 Combination Boiler (ID 3705)
Monitor Downtime	1.50 %	0.42 %
Excess Emissions	0.01 %	0.07 %
Overall Compliance	98.49 %	99.51 %
Precipitator Bypass	3727 minutes	849 minutes

There was one brief trip of the precipitator for No. 1 Combination Boiler and four brief trips of the precipitator for No. 2 Combination Boiler within the semi-annual period. Specific details are on the enclosed logs for each boiler.

Condition 08.6 Equip IDs 2605 & 3705

Reporting Frequency: Semi-Annually

Tire-derived fuel (TDF) rate records for the semi-annual reporting period indicate that there were no rates above the 1.5-TPH limit.

2016 Second Quarter CEM Report Summaries

Condition 08.7

Equip IDs 2605, 3705, 5260, 5270, & 9820

Reporting Frequency: Semi-Annually

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.7.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is positive operation of flame failure system and vent valve position.
- Cause and corrective actions are detailed on the enclosed logs.

During the semi-annual period, there were 20 vents of the low volume high concentration (LVHC) gas system, and eight vents of the high volume low concentration (HVLC) gas system, due to a variety of causes.

Note: Reports required under 40 CFR Part 60 Subpart S and General Provisions are being submitted separately to the Air Toxics Group. A copy is attached to this report for your review.

Title V Permit ID 09 – Waste Treatment

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
09.1(A)	9800 & 9801	No	N/A	N/A
09.1(B)	2902 through 2905	N/A	N/A	Refers to FW.4
09.2	2902 through 2905	No	N/A	N/A
09.3	2903	Yes	Semi-annual	See note below.
09.4	9801	N/A	N/A	Refers to 08.7
09.5	9801	N/A	N/A	Refers to MACT conditions

Condition 09.3

Equip ID 2903

Reporting Frequency: Semi-Annually

Monthly records indicate the No. 1 Holding Basin Pump No. 2 did not operate more than 7000 hours per year.

2016 Second Quarter CEM Report Summaries

Title V Permit ID 10 – Storage Tanks

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
10.1	1100	No	N/A	N/A
10.2	1100	No	N/A	N/A

Title V Permit ID 11 – Miscellaneous

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
11.1	2900 & 1000	N/A	N/A	Refer to FW.4

Facility Wide Conditions

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
FW.1	All	No	N/A	N/A
FW.2	2723	Yes	Semi-annual	See note below.
FW.3	2723 & 5105	No	N/A	N/A
FW.4	1300, 2000, 2005, 4600, 4605, 4100, 4110, 9700, 9701A, 9701B, 9702, 9703, 9704, 2000, 4610, 4120, 4130, 9900, 2515, 2520, 5115, 5120, 2700, 2701, 2702, 2703, 2550, 2902, 2903, 2904, 2905, 2900, & 1100	Yes	Semi-annual	See note below.
FW.5	5210, 5240, 2400,	Yes No	Semi-annual N/A	See notes below. N/A
FW.6	5100, 5260, 5260C,			
FW.7	2605, & 3705			

2016 Second Quarter CEM Report Summaries

Condition FW.2 Equip ID 2723

Reporting Frequency: Semi-Annually

Lime Kiln production rates are shown below:

Month	Kiln Production TPD	12- Month Rolling Avg
December-14	323	326
January-15	322	329
February-15	309	333
March-15	165	331
April-15	339	331
May-15	387	335
June-15	390	336
July-15	379	336
August-15	386	340
September-15	317	335
October-15	344	333
November-15	346	334
December-15	316	333
January-16	299	331
February-16	357	335
March-16	239	342
April-16	377	345
May-16	416	347
June-16	346	344

The 12-month rolling sum for lime kiln operation did not exceed the 465-ton per day limit during the reporting period.

Condition FW.4 Equip IDs 1300, 2000, 2005, 4600, 4605, 4100, 4110, 9700, 9701A, 9701B, 9702, 9703, 9704, 2000, 4610, 4120, 4130, 9900, 2515, 2520, 5115, 5120, 2700, 2701, 2702, 2703, 2550, 2902, 2903, 2904, 2905, 2900, & 1100

Reporting Frequency: Semi-Annually

Visual emissions inspections were conducted on the sources listed below and the frequencies indicated. There were no incidences of abnormal VE results during the semi-annual reporting period.

Condition FW.5(A1) Equip ID 5260C

Reporting Frequency: Semi-Annually

Records of liquid flow and liquid pH are maintained. There were no incidences of variances from established parameters during the reporting period.

2016 Second Quarter CEM Report Summaries

Condition FW.5(A2)

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of the combination boiler that is combusting NCG streams, the daily bark fired in each combination boiler, and the daily Kraft pulp production are maintained. The daily bark/Kraft pulp production ratio and the 30-day rolling average ratio are calculated. There were no incidences of variances from the minimum level during the reporting period.

Condition FW.5(C)

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of monthly and 12-month rolling sums of SO₂ emissions are maintained. There were no incidences of monthly 12-month sums above the annual SO₂ PSD BACT limit during the reporting period.

Condition FW.6

**Equip IDs 5210, 5240, 2400, 5100,
5260, 5260C, 2605, & 3705**

Reporting Frequency: Semi-Annually

Records of monthly and 12-month rolling average of unbleached pulp production are maintained. There were no incidences of rolling 12-month averages above the production limit during the reporting period.

2016 Second Quarter CEM Report Summaries

Conditions for MACT Affected Sources

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
MACT.1(C)	5210, 5220, 5230, 5240, 5250, 2400, 2500, 5100, 2605, & 3705	Yes	Semi-annual	See note below.
MACT.2(A)	5210, 5220, 2400, 2500, 5100, 9800, & 9801	Yes	Semi-annual	See note below.
MACT.3(A)	5300	Yes	Semi-annual	See note below.
MACT.4	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 5100, 2605, 3705, 9800, & 9801	No	N/A	N/A
MACT.5(A2)	2505, 2723, & 5105	Yes	Quarterly	See note below.
MACT.5(C)	2510 & 5110	Yes	Quarterly	See note below.
MACT.6	2010 & 4610	Yes	Semi-annual	See note below.
MACT.7	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 2505, 2510, 2723, 5100, 5105, 5110, 9800, & 9801	No	N/A	N/A
MACT.8, MACT.9, & MACT.10	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 2505, 2510, 2723, 5100, 5105, 5110, 2605, 3705, 9800, & 9801	No	N/A	N/A

2016 Second Quarter CEM Report Summaries

Condition MACT.1(C)

**Equip IDs 5210, 5220, 5230, 5240, 5250
2400, 2500, 5100, 2605, & 3705**

Reporting Frequency: Semi-Annually

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

Condition MACT.2(A)

**Equip IDs 5210, 5220, 2400, 2500,
5100, 9800, & 9801**

Reporting Frequency: Semi-Annually

Condensate Collection and Treatment System excess emissions were greater than 1% of the semi-annual period operating time. CMS downtime was less than 5% of operating time. See the attached MACT I report for details.

Condition MACT.3(A)

Equip ID 5300

Reporting Frequency: Semi-Annually

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

Condition MACT.5(A2)

Equip IDs 2505, 2723, & 5105

Reporting Frequency: Quarterly

The record of exceedances is provided in the attached MACT II report.

Condition MACT.5(C)

Equip IDs 2510 & 5110

Reporting Frequency: Quarterly

The record of exceedances is provided in the attached MACT II report.

Condition MACT.6

Equip IDs 2010 & 4610

Reporting Frequency: Semi-Annually

See the attached POWC MACT report.



CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Combination Boiler No. 1

ID 2605 SIP

Report Period 4/1/16 to 6/30/16

Permit Conditions: 5C.08.1(B), 5C.08.2(B), 5C.08.6, and 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	1/24/16	1:54 AM	52	x			6		Oil gun build up in wind box	Changed oil gun
1	2/11/16	9:30 AM	-	x			120		Quarterly calibration	Completed calibration
1	3/13/16	11:12 PM	75	x			12		RB2 down due to tube leak; put in 3 oil burners on CB1 to maintain steam pressure; #3 burner was bad and ESP outlet field tripped.	Took out bad burner and reset ESP.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature: _____



CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Combination Boiler No. 2

ID 3705 SIP

Report Period 4/1/16 to 6/30/16

Permit Conditions: 5C.08.1(B), 5C.08.2(B), 5C.08.6, and 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	2/4/16	10:54 AM	55	x			23		EP inlet field not loading	Returned EP to normal operation
2	2/10/16	8:54 PM	46	x			6		Bark piled up in boiler	Cut back on bark feed
3	2/11/16	9:24 AM	-	x			120		Quarterly Calibration	Completed calibration
4	2/11/16	2:30 PM	-	x			150		Environmental 360 working on monitors	Completed work
5	2/13/16	3:48 PM	47	x			6		Wet bark and high Mill load	Cut back on bark and air
6	2/14/16	3:30 PM	63	x			6		Bad bark	Cut back on bark and air
7	2/16/16	12:12 PM	61	x			6		Oil valve malfunction	Valved out oil
8	2/17/16	8:54 PM	80	x			6		EP tripped	Cut bark and added gas; called maint. And returned EP
9	2/26/16	5:48 AM	80	x			42	42	Fire in hopper	Pulled bark and added fire water
1	3/9/16	9:06 PM	80	x			60	60	Fire in hopper, Southeast field of EP	Pulled bark, bypassed EP, added fire water
2	3/17/16	5:24 AM	-	x			72	72	Fire in hopper	Pulled bark, bypassed EP, added fire water
3	3/24/16	7:24 AM	42	x			6		High load on boiler	Cut back on bark and gas
4	3/30/16	2:50 PM	-	x			285	285	Bypassed ESP to clean out hopper	Completed clean out, returned to ESP

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature: _____



CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Recovery Boiler No. 2

ID 2505 TV

Report Period 4/1/16 to 6/30/16

Permit conditions: 5.C.07.2(A), 5.C.14, and MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	1/2/2016	2:30 AM	-	x			15	Out of alignment	Realigned monitor
2	1/3/2016	10:18 AM	-	x			402	Bad optical board	Replaced board
3	1/4/2016	2:30 AM	-	x			30	Out of alignment	Realigned monitor
4	1/10/2016	5:35 PM	-	x			10	Out of alignment	Realigned monitor
5	1/11/2016	10:00 AM	-	x			20	Out of alignment	Realigned monitor
6	1/11/2016	6:42 PM	-	x			23	Out of alignment	Realigned monitor
7	1/12/2016	10:25 AM	-	x			20	Out of alignment	Realigned monitor
8	1/12/2016	7:42 PM	-	x			42	Out of alignment	Realigned monitor
9	1/13/2016	10:00 AM	-	x			15	Out of alignment	Realigned monitor
10	1/13/2016	4:36 PM	-	x			24	Out of alignment	Realigned monitor
11	1/14/2016	10:33 PM	-	x			51	Out of alignment	Realigned monitor
12	1/15/2016	3:30 AM	-	x			45	Out of alignment	Realigned monitor
13	1/15/2016	7:36 AM	-	x			84	Out of alignment	Realigned monitor
14	1/18/2016	4:30 AM	-	x			10	Out of alignment	Realigned monitor
15	1/18/2016	12:58 PM	-	x			9	Out of alignment	Realigned monitor
16	1/19/2016	9:42 PM	-	x			28	Out of alignment	Realigned monitor
17	1/21/2016	11:24 AM	-	x			41	Out of alignment	Realigned monitor
18	1/22/2016	5:06 PM	avg>20%	x			246	Broken chain on North side of EP	Repair chain and start up EP field
19	1/22/2016	9:00 PM	37	x			12	Broken chain on North side of EP	Repair chain and start up EP field
20	1/22/2016	9:12 PM	-	x			30	Out of alignment	Realigned monitor
21	1/23/2016	9:48 AM	avg>20%	x			36	North side EP bypassed for maintenance	Completed work and returned to EP
22	1/23/2016	11:24 AM	avg>20%	x			54	North side EP bypassed for maintenance	Completed work and returned to EP
23	1/23/2016	12:36 PM	avg>20%	x			240	North side EP bypassed for maintenance	Completed work and returned to EP
24	1/24/2016	8:00 PM	-	x			45	Out of alignment	Realigned monitor
25	1/25/2016	10:24 AM	-	x			21	Out of alignment	Realigned monitor
26	1/31/2016	1:00 AM	-	x			20	Out of alignment	Realigned monitor
27	1/31/2016	11:15 AM	-	x			10	Out of alignment	Realigned monitor
1	2/5/2016	10:54 PM	-	x			16	Out of alignment	Realigned monitor
2	2/6/2016	12:36 PM	-	x			42	Out of alignment	Realigned monitor
3	2/7/2016	1:30 AM	-	x			20	Out of alignment	Realigned monitor
4	2/8/2016	8:18 AM	-	x			48	Out of alignment	Realigned monitor
5	2/8/2016	5:00 PM	-	x			40	Out of alignment	Realigned monitor
6	2/9/2016	5:24 AM	-	x			12	Out of alignment	Realigned monitor
7	2/9/2016	3:24 PM	-	x			60	Quarterly calibration	Completed calibration
8	2/10/2016	2:48 PM	-	x			146	Out of alignment	Realigned monitor
9	2/11/2016	2:48 PM	-	x			30	Out of alignment	Realigned monitor
10	2/12/2016	8:54 AM	-	x			36	Out of alignment	Realigned monitor
11	2/12/2016	12:00 PM	-	x			15	Out of alignment	Realigned monitor
12	2/12/2016	4:40 PM	-	x			25	Out of alignment	Realigned monitor
13	2/12/2016	9:15 PM	-	x			15	Out of alignment	Realigned monitor
14	2/13/2016	3:10 AM	-	x			15	Out of alignment	Realigned monitor
15	2/13/2016	4:36 AM	-	x			39	Out of alignment	Realigned monitor
16	2/13/2016	11:18 PM	avg>20%	x			12	2 field down on EP	Cut back on air and liquor
17	2/14/2016	1:00 AM	-	x			30	Out of alignment	Realigned monitor
18	2/14/2016	9:06 AM	-	x			64	Out of alignment	Realigned monitor
19	2/15/2016	9:00 AM	-	x			30	Out of alignment	Realigned monitor
20	2/16/2016	1:30 AM	-	x			20	Out of alignment	Realigned monitor
21	2/17/2016	1:24 AM	-	x			21	Out of alignment	Realigned monitor
22	2/17/2016	11:48 PM	-	x			15	Out of alignment	Realigned monitor
23	2/18/2016	12:36 PM	-	x			30	Out of alignment	Realigned monitor



CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Recovery Boiler No. 2

ID 2505 TV

Report Period 4/1/16 to 6/30/16

Permit conditions: 5.C.07.2(A), 5.C.14, and MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
24	2/23/2016	8:43 AM	-	x			17	Out of alignment	Realigned monitor
25	2/23/2016	10:06 AM	-	x			39	Out of alignment	Realigned monitor
26	2/23/2016	12:12 PM	-	x			13	Out of alignment	Realigned monitor
27	2/24/2016	5:54 PM	-	x			21	Out of alignment	Realigned monitor
28	2/25/2016	8:45 PM	-	x			15	Out of alignment	Realigned monitor
29	2/26/2016	2:00 PM	-	x			36	Out of alignment	Realigned monitor
30	2/29/2016	1:06 PM	avg>20%	x			476	North side of ESP grounded	Cut air, called maint. And opened outlet damper
31	2/29/2016	3:00 PM	45	x			12	North side of ESP grounded	Cut air, called maint. And opened outlet damper
1	3/2/2016	8:30 AM	-	x			19	Out of alignment	Realigned monitor
2	3/3/2016	1:42 PM	-	x			18	Out of alignment	Realigned monitor
3	3/3/2016	10:48 PM	-	x			72	Out of alignment	Realigned monitor
4	3/7/2016	5:40 AM	-	x			15	Out of alignment	Realigned monitor
5	3/7/2016	9:20 AM	-	x			15	Out of alignment	Realigned monitor
6	3/25/2016	5:49 PM	-	x			27	Out of alignment	Realigned monitor
7	3/31/2016	8:00 PM	80	x			18	ESP Breaker tripped on South Side	Reset ESP

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature: _____



CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Recovery Boiler No. 3

Report Period 4/1/16 to 6/30/16

Permit Conditions 5.E Gen 07; 5.E.07.02; 5.E.07.03; 5.E.07.04; 5.E.07.06; 6.B.07.01

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	1/18/2016	11:42 PM	avg>20%	x			12	West inlet EP field not loading up	Reduced liquor and air flow, returned EP
2	1/19/2016	5:30 PM	53	x			6	West inlet EP not loading up	Closed East inlet gate to blow out west side of EP
3	1/19/2016	5:42 PM	avg>20%	x			18	West inlet EP not loading up	Closed East inlet gate to blow out west side of EP
4	1/22/2016	9:06 AM	avg>20%	x			156	West inlet EP not loading up, #19 rapper down	Cut back on liquor and air flow, worked on #19 rapper
5	1/23/16	10:36 AM	avg>20%	x			48	West inlet field not loading up	Put rappers in manual mode
6	1/23/16	9:30 PM	avg>20%	x			12	Issue with EP fields	Ran rappers on manual mode, made visual on rappers on walk down
7	1/24/16	1:18 AM	avg>20%	x			48	EP Fields not loading up	Change air, changed parameters on inlet field west side, rappers in manual mode
8	1/24/16	11:18 PM	avg>20%	x			18	Low fields on EP	Changed air and liquid temperature, checked rapper
9	1/25/16	1:06 AM	avg>20%	x			150	Low fields on EP	Changed air and liquid temperature, checked rapper
1	2/3/16	11:16 PM	avg>20%	x			6	West inlet EP field not loading up	Cut back on liquor
2	2/4/16	8:00 AM	-	x			10	Out of alignment	Realigned monitor
3	2/10/16	2:54 PM	-	x			198	Quarterly Calibration	Completed calibration
4	2/10/16	6:42 PM	avg>20%	x			48	Inlet EP field not loading	reduced air and liquor
5	2/11/16	11:12 AM	avg>20%	x			186	EP Field issues	Reduced air, Maint. Worked on fields and EP gates
6	2/11/16	3:00 PM	41	x			6	EP Field issues	Reduced air, Maint. Worked on fields and EP gates
7	2/11/16	3:12 PM	avg>20%	x			132	EP Field issues	Reduced air, Maint. Worked on fields and EP gates
8	2/11/16	4:06 PM	70	x			24	EP Field issues	Reduced air, Maint. Worked on fields and EP gates
9	2/11/16	7:18 PM	-	x			132	Environmental 360 working on monitors	Completed work
10	2/20/16	1:18 AM	39	x			6	Lost inlet field westside of ESP	Reset field, closed ESP gate for 60 seconds.
11	2/20/16	1:36 AM	avg>20%	x			24	Lost inlet field westside of ESP	Reset field, closed ESP gate for 60 seconds.
12	2/20/16	2:42 AM	41	x			6	Lost inlet field westside of ESP	Closed ESP gate, cut back on liquor, changed air, called Maint. To replace a fuse.
13	2/20/16	2:54 AM	36	x			6	Lost inlet field westside of ESP	Closed ESP gate, cut back on liquor, changed air, called Maint. To replace a fuse.
14	2/20/16	3:06 AM	avg>20%	x			12	Lost inlet field westside of ESP	Closed ESP gate, cut back on liquor, changed air, called Maint. To replace a fuse.
15	2/22/16	4:06 AM	avg>20%	x			72	Issues with ESP	Changed air, cut back on liquor
16	2/22/16	12:42 PM	avg>20%	x			30	Opacity increase	Decreased air flow and liquor flow
17	2/22/16	3:12 PM	37	x			6	ESP west inlet field tripped	Pulled liquor and decreased air, called maintenance to reset fields
18	2/22/16	6:42 PM	avg>20%	x			36	ESP field issues	Pulled liquor and changed air
19	2/22/16	10:00 PM	66	x			18	Blowing out ESP	Completed blow out
20	2/22/16	10:12 PM	avg>20%	x			60	Blowing out ESP	Completed blow out
21	2/22/16	10:48 PM	48	x			6	Blowing out ESP	Completed blow out
22	2/23/16	11:54 PM	avg>20%	x			18	West inlet field failed	Cut air and liquor, called maintenance
23	2/29/16	9:45 AM	-	x			35	Reading low	Ran zero set, OK
1	3/11/16	12:36 PM	avg>20%	x			18	Plugged liquor gun	Cleared plug
2	3/11/16	4:36 PM	avg>20%	x			6	Plugged liquor gun	Cleared plug
3	3/14/16	10:24 AM	avg>20%	x			42	ESP west inlet not loading up	Cut back on liquor
4	3/14/16	11:00 PM	avg>20%	x			12	ESP west inlet not loading up	Called E/I to get #13 rapper running (to load west inlet); cut back on air and liquor
5	3/15/16	6:12 AM	40	x			6	ESP west inlet not loading up	Cut back on liquor and air
6	3/15/16	6:36 AM	41	x			6	ESP west inlet not loading up	Cut back on liquor and air
7	3/15/16	6:12 AM	avg>20%	x			54	ESP west inlet not loading up	Cut back on liquor and air

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature: _____



CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Lime Kiln No. 2

ID 2723 TV

Report Period 4/1/16 to 6/30/16

Permit conditions: 5.C.07.2(A), 5.C.07.12(B), 5.C.17(A), and MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	1/4/16	6:10 PM	-	x			26	Not reading correctly	Ran full calibration
1	2/3/16	1:18 PM	-	x			30	Heavy Rain storm	Storm passed, I/E cleaned lens
2	2/12/16	1:00 PM	-	x			60	Quarterly Calibration	Completed calibration
3	2/24/16	8:00 AM	-	x			6	Gas analyzer failed	Called E/I to correct
4	2/24/16	12:36 PM	-	x			6	Gas analyzer failed	Called E/I to correct
5	2/24/16	1:00 PM	-	x			6	Gas analyzer failed	Called E/I to correct
6	2/28/16	5:00 AM	-	x			30	Lense needed cleaning	Cleaned lenses and stack hole
1	3/29/16	1:12 AM	27	x			12	Mud bypassing kiln, start-up	Stopped bypassing kiln, put mud on kiln
2	3/29/16	2:30 PM	47	x			12	ESP tripped	Put ESP in bypass, called I/M to get ESP back on line

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature: _____



CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Smelt Dissolving Tank Vent Scrubber

Report Period 4/1/16 to 6/30/16

ID 2510 and 5110 SIP, NSPS

Permit Conditions 5.E. Gen 09; 5.E. Gen 11; 5.E.07.08; 5.E.07.09
This report is for variations outside of surrogate monitoring parameters or permit exception conditions.

Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Pump Pressure, Flow, delta P			
There were no excursion events or downtime during the month of January 2016.						
There were no excursion events or downtime during the month of February 2016.						
There were no excursion events or downtime during the month of March 2016.						

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature: _____